

SEQUENCE LISTING

<110> Harding, Robert Maxwell
 Dale, James Langham
 Becker, Douglas Keith
 Hafner, Gregory John
 Yang, Ilin

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<210> 3
<211> 146
<212> PRT
<213> Taro bacilliform virus

<400> 3

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Met Ala Lys Lys Phe Glu Ala Ala Ile Lys Asp Trp Tyr Asp Asn Ser
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Arg Arg Ala Asp Leu Ser Tyr Leu Asp Leu Ala Thr Thr Thr Lys Pro
20 25 30

Ser Ala Ser Gln Leu Ala His Asn Leu Gln Val Ile Phe Asp Arg Leu
35 40 45

Ser Leu His Ser Ser Val Ser Ile Lys Glu His Tyr Glu Val Val Ser
50 55 60

Lys Leu His Ser Leu Glu Lys Ser Ile Glu Glu Leu Lys Ser Glu Leu
65 70 75 80

Thr Thr Val Lys Arg Ala Leu Thr Ser Ile Gln Lys Glu Val Phe Thr
85 90 95

His Lys Pro Leu Thr Ala Gln Glu Val Gln Thr Leu Ala Gln Ser Leu
100 105 110

Ile Lys Glu Pro Lys Gln Ile Glu Gln Gln Ala Val Phe Leu Leu Lys
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Glu Leu Lys Glu Gln Thr Ala Lys Ile Gln Ala Leu Leu His Glu Leu
130 135 140

Lys Ser
145

<210> 4
<211> 144
<212> PRT
<213> Taro bacilliiform virus

<400> 4

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Glu Thr Lys Val Leu Gly Asp Pro Ser Val Gly Phe Ser Glu Ile Pro
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Thr Thr Ala Ile Gly Thr Ala Thr Gly Phe Ser Thr Leu Tyr Lys Gln
35 40 45

Asn Asn Thr Ile Ile Asn Leu Leu Ile Ser Leu His Lys Lys Val Asp
50 55 60

Ser Leu Ser Lys Lys Thr Asp Val Asp Glu Leu Ala Thr Glu Leu Ser
65 70 75 80

Lys Leu Thr Ile Lys Asp Thr Pro Lys Val Lys Ala Lys Thr Pro Leu
85 90 95

Tyr Val Phe Lys Ser Pro Arg Leu Ile Leu Glu Glu Glu Arg Tyr Lys
100 105 110

Ile Gly Leu Pro Pro Thr Thr Thr Asp Trp Thr Trp Pro Val Gly His
115 120 125

Pro Phe Ala Pro Pro Pro Lys Thr Ser Thr Lys Ala Ser Thr Ser Ser
130 135 140

<210> 5
<211> 1881
<212> PRT
<213> Taro bacilliiform virus

<400> 5.

Met Ser Leu Ala Val Arg Asp Arg Gly Ser Asn Pro Ser Thr Ser Ser
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20 25 30

Arg Val Arg His Thr Ala Glu Arg Ala Ala Arg Arg Ile Phe Pro Gly
35 40 45

Arg Phe Asn Arg Thr Leu Glu Ser Gln Ile Asn Pro Glu Ala Glu Ile
50 55 60

Arg Leu Ser Gln Gln Arg Arg Ala Ala Met Val Pro Ala Glu Val Leu
65 70 75 80

Tyr Asn Thr Ser Pro Ser Thr Arg Asn Gln Lys Val Tyr Gln His Tyr
85 90 95

Ser Glu Glu Arg Ile Leu Cys Thr Gly Gln Asn Gln Gln Leu Asn Leu
 100 105 110

Pro Phe Ile Asn Glu Ser Ser Tyr Arg Ala Leu Arg Glu Ser Gly Gln
 115 120 125

Gln His Leu His Ile Gly Leu Ile Met Ile Arg Val His Pro Leu His
 130 135 140

Arg Arg Asn Ala Gly Thr Thr Ala Leu Ile Val Pro Arg Asp Ile Arg
 145 150 155 160

Trp Asn Asp Asp Arg Ser Ile Ile Gly Thr Met Glu Ile Asp Leu Ser
 165 170 175

Ala Gly Ser Gln Ile Val Tyr Ile Ala Pro Asn Ile Met Leu Ser Val
 180 185 190

Glu Asp Phe Tyr Arg Asn Ile Gln Leu Ala Ile Gln Thr Gln Gly Tyr
 195 200 205

Glu Asn Trp Asn Ser Ala Glu Ser Asn Leu Leu Ile Ser Arg Ala Leu
 210 215 220

Ile Gly Arg Leu Thr Asn Asp Ser Phe Thr Gly Phe Gln Tyr Asn Ile
 225 230 235 240

Ser Asn Val Ala Glu Tyr Leu His Ser His Gly Val Gln Ala Ile Glu
 245 250 255

Gly Gln Ala His Pro Arg Thr Leu Gly Asn Arg Trp Ile Leu Gln Ala
 260 265 270

Pro Ala Pro Pro Arg Ser Leu Val Pro Gln Asn Val Glu Thr Thr Thr
 275 280 285

Leu Leu Asp Gly Asn Val Ser Ile Arg Phe Ser Asn Tyr His Gln Ala
 290 295 300

Pro Val Asn Asp Thr Gln Asp Asn Ser His Pro Asp Ile Gln Glu Asp
 305 310 315 320

Glu Asn Gln Phe Ile Gly Phe Leu Ser Asp Leu Gly Glu Glu Tyr Glu

325										330					335				
Leu	Glu	Tyr	Pro	Ser	Phe	Thr	Pro	Val	His	Ala	Asp	Glu	Phe	Ile	Phe				
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Ile	Ile	Ile	Asn	Gly	Glu	Glu	Ile	Pro	Asp	Asp	Phe	Val	Ser	Ser	Phe				
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Cys	Ser	Asn	Phe	Ser	Pro	Pro	Pro	Ile	Pro	Glu	Pro	Glu	Pro	Thr	Ala				
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Ile	Glu	Glu	Thr	Ala	Phe	Thr	Leu	Glu	Glu	Gln	Phe	Asn	Asp	Leu	Asp				
385					390					395					400				
Tyr	Pro	Thr	Leu	Ile	Ser	Met	Glu	Lys	Gln	Leu	Val	Gln	Ser	Ser	Val				
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Thr	Ser	Ala	Tyr	Asn	Pro	Pro	Thr	Glu	Pro	Leu	Met	Gly	Gln	Val	Val				
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Tyr	Pro	Pro	Ala	Ser	Ala	Pro	Arg	Pro	Gln	Ala	Glu	Thr	Ser	Ser	Thr				
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Ser	Glu	Arg	Phe	Lys	Asn	Phe	Arg	Ala	Lys	Pro	Tyr	Ser	Thr	Pro	Thr				
	450					455					460								
Ile	Phe	Leu	Pro	Pro	Ala	Tyr	Asn	Gln	Gln	Gly	Ala	Ile	Leu	Val	Leu				
465					470					475					480				
Pro	Asp	Asp	Ile	Gly	Leu	Tyr	Glu	Asp	Thr	Ile	Ser	Arg	Trp	Glu	Ser				
				485					490					495					
Ile	Thr	Leu	Asn	Met	Met	Asn	Glu	Lys	Val	Trp	Pro	Ser	Asn	Glu	Ala				
			500					505					510						
Lys	Ala	Lys	Tyr	Met	Glu	Asn	Leu	Leu	Gly	Glu	Met	Glu	Lys	Lys	Thr				
		515					520					525							
Trp	Ile	Gln	Trp	Arg	Thr	Thr	Tyr	Val	Ser	Glu	Tyr	Asp	Ala	Leu	Val				
	530					535					540								
Gln	Gln	Ser	Asp	Glu	Thr	Gln	Asn	Leu	Leu	Ser	Gln	Val	Arg	Arg	Ile				
545					550					555					560				

Phe Leu Leu Gln Asp Pro Tyr Gln Gly Ser Thr Ala Glu Gln Asp Gln
 565 570 575

Ala Tyr Asn Asp Leu Glu Arg Ile Ser Cys Asp Asn Ile Lys Asp Leu
 580 585 590

Ile Pro Tyr Leu Ile Gln Phe Arg Asn Leu Ala Ala Lys Ser Gly Arg
 595 600 605

Leu Phe Leu Gly Pro Glu Leu Ser Glu Lys Leu Phe Arg Lys Met Pro
 610 615 620

Pro Leu Ile Gly Lys Glu Ile Glu Thr Ala Phe Ile Ala Lys His Gly
 625 630 635 640

Asn Ala Asn Ile Thr Val Met Pro Arg Ile His Phe Ala Tyr His Tyr
 645 650 655

Leu Ala Glu Leu Cys Lys Lys Ala Ala Leu Gln Arg Ser Leu Lys Asp
 660 665 670

Leu Ser Phe Cys Asn Gln Ile Pro Leu Pro Gly Ile Tyr Thr Lys Gly
 675 680 685

Asn Lys Lys Phe Gly Leu Arg Lys Ala Arg Thr Tyr Lys Gly Lys Pro
 690 695 700

His Pro Thr His Val Arg Val Phe Lys Lys Ala Lys Tyr Gln Arg Thr
 705 710 715 720

Lys Lys Cys Lys Cys Phe Ile Cys Gly Glu Pro Gly His Phe Ala Arg
 725 730 735

Glu Cys Thr Lys Gln Arg Gly Asn Ile Val Arg Ala Thr Val His Gln
 740 745 750

Glu Leu Ala Ile Pro Asp Asn Phe Asp Val Val Ser Val Asp Ala Asp
 755 760 765

Glu Ser Asp Ser Ser Gly Ile Tyr Ser Tyr Ser Glu Asn Glu Ala Pro
 770 775 780

Leu Gln Glu Val Asn Ser Phe Ile His Asp Glu Asn Ile Phe Phe Leu
785 790 795 800

Ser Asp Ala Asp Glu Phe Glu Ser Pro Gln Gln His Leu His Glu Thr
805 810 815

Val Asn Met Leu Gln Ser Arg Ser Ala Tyr Leu Pro Gln Val Ala Val
820 825 830

Gly Glu Glu Lys Leu Asn Cys Ser His Ile Trp Leu Gln Asp Val Asp
835 840 845

Ile Pro Ser Asp Lys His Lys Cys His Thr Cys Arg Arg Asp Thr Gln
850 855 860

Lys His Tyr Arg Leu Glu Cys Gln Lys Cys Lys Phe Leu Val Cys Ser
865 870 875 880

Leu Cys Thr Ile Pro Tyr Leu Gly Ile Thr Met Gln Phe Arg Gln Lys
885 890 895

Gln Lys Ser Gln Pro Glu Asn Pro Asn Leu Val Arg Glu Leu Leu Glu
900 905 910

His Ala Ile Phe Leu Glu Glu Lys Cys Lys Asn Gln Glu Leu Leu Ser
915 920 925

Glu Thr Gln Ile Glu Arg Ile Val Ser Ser Glu Lys Gln Val Lys Phe
930 935 940

Tyr Gly Ile Leu Pro Thr Lys Lys Ser Asn Lys Ser Ala Gly Tyr Asp
945 950 955 960

Leu Gln Ser Asn Ile Asp Ile Glu Ile Pro Pro Gly Lys Cys Thr Val
965 970 975

Ile Ser Thr Gly Thr Phe Leu Gln Met Pro Asp Asn Met Tyr Gly Arg
980 985 990

Leu Val Glu Arg Thr Ser Leu Ala Ile Gln Gly Ile Thr Val Gln Gly
995 1000 1005

Gly	Val	Ile	Asp	Pro	Asp	Phe	Thr	Gly	Glu	Ile	Gln	Ile	Val	Leu
1010						1015					1020			
Phe	Asn	His	Asn	Thr	Ala	Pro	Tyr	Pro	Val	Lys	Lys	Thr	Tyr	Arg
1025						1030					1035			
Leu	Ala	Gln	Ile	Ile	Phe	Glu	Lys	Phe	Tyr	Thr	Pro	Ile	Phe	Ile
1040						1045					1050			
Gln	Glu	Pro	Phe	Thr	Ser	Thr	Gln	Gln	Gly	Ser	Ser	Asn	Phe	Gly
1055						1060					1065			
Ser	Thr	Ala	Lys	Pro	Leu	Gln	Ile	Thr	Glu	Asn	Ile	Glu	Val	Met
1070						1075					1080			
Ser	Glu	Thr	Val	Ala	Asn	Gln	Val	Ala	Lys	Ser	Ser	Val	Leu	Pro
1085						1090					1095			
Arg	Leu	Tyr	Ser	Ile	Gln	Ala	His	Ile	His	Ile	Ala	Pro	Asp	Ile
1100						1105					1110			
Val	Ile	Ser	Thr	Thr	Ala	Ile	Ile	Asp	Thr	Gly	Ala	Thr	Val	Cys
1115						1120					1125			
Cys	Ile	Ser	Glu	Lys	Ile	Val	Pro	Glu	Ala	Ala	Lys	Glu	Gln	Leu
1130						1135					1140			
Asn	Tyr	Lys	Val	Asn	Ile	Ser	Gly	Ile	Ser	Ser	Gln	Gln	Gln	Ile
1145						1150					1155			
Gln	His	Arg	Leu	Lys	Arg	Gly	Thr	Leu	Glu	Ile	Ala	Ser	Asn	Lys
1160						1165					1170			
Tyr	Ala	Leu	Pro	Leu	Cys	Tyr	Ile	Ile	Glu	Leu	Asn	Asp	Lys	Asp
1175						1180					1185			
Asp	Phe	Ser	Met	Ile	Leu	Gly	Cys	Asn	Phe	Phe	Lys	His	Met	Gly
1190						1195					1200			
Gly	Gly	Met	Arg	Phe	Glu	Gly	Pro	His	Val	Thr	Phe	Tyr	Lys	Gly
1205						1210					1215			
Ile	Thr	Thr	Leu	Ser	Thr	Ser	Tyr	Ala	Asn	Thr	Gly	Ile	Asp	Thr

1220		1225		1230
Glu His	Glu Gln Ile Thr	Ser Thr Thr Ser Gln	Ser Phe Lys Glu	
1235		1240	1245	
Arg Phe	Ser Pro Leu Met	Asn Glu Leu Lys Ala	Ala Gly Tyr Ile	
1250		1255	1260	
Gly Glu	Asp Pro Leu Lys	His Trp Ser Lys Asn	Lys Val Thr Cys	
1265		1270	1275	
Lys Leu	Asp Leu Lys Asn	Thr Glu Ile Thr Ile	Gln Asp Lys Pro	
1280		1285	1290	
Leu Arg	His Ile Thr Pro	Ala Leu Glu Gln Ser	Tyr Gly Arg His	
1295		1300	1305	
Val Asn	Ala Leu Leu Met	Leu Lys Val Ile Gln	Pro Ser Lys Ser	
1310		1315	1320	
Arg His	Arg Thr Met Ala	Phe Leu Val Asn Ser	Gly Thr Thr Val	
1325		1330	1335	
Thr Ala	Asp Gly Lys Glu	Ile Lys Gly Lys Glu	Arg Met Val Phe	
1340		1345	1350	
Asn Tyr	Lys Ala Leu Asn	Asp Asn Thr Tyr Lys	Asp Gln Tyr Ser	
1355		1360	1365	
Leu Pro	Asn Ile Gln Leu	Ile Leu Lys Lys Val	Ile Asn Ser Thr	
1370		1375	1380	
Ile Tyr	Ser Lys Phe Asp	Leu Lys Ser Gly Phe	His Gln Val Ala	
1385		1390	1395	
Met Asp	Pro Asp Ser Val	Glu Trp Thr Ala Phe	Leu Val Pro Gln	
1400		1405	1410	
Gly Leu	Tyr Glu Trp Leu	Ala Met Pro Phe Gly	Leu Lys Asn Ala	
1415		1420	1425	
Pro Ala	Val Phe Gln Arg	Lys Met Asp Ala Val	Phe Lys Gly Cys	
1430		1435	1440	

Glu	Lys	Phe	Leu	Ala	Val	Tyr	Ile	Asp	Asp	Ile	Leu	Val	Phe	Ser
1445						1450					1455			
Asn	Asn	Glu	Glu	Asp	His	Ala	Lys	His	Leu	Val	Ile	Met	Leu	Gln
1460						1465					1470			
Arg	Cys	Lys	Glu	His	Gly	Leu	Val	Leu	Ser	Pro	Thr	Lys	Met	Asn
1475						1480					1485			
Ile	Ala	Val	Arg	Glu	Val	Asn	Phe	Leu	Gly	Ala	Thr	Ile	Gly	Ser
1490						1495					1500			
Arg	Lys	Val	Lys	Leu	Gln	Glu	Asn	Ile	Ile	Lys	Lys	Ile	Leu	Asp
1505						1510					1515			
Phe	Asp	Thr	Glu	Lys	Leu	Gln	Ser	Lys	Lys	Gly	Leu	Arg	Ser	Phe
1520						1525					1530			
Leu	Gly	Ile	Leu	Asn	Tyr	Ala	Arg	Asn	His	Ile	Pro	Asn	Leu	Gly
1535						1540					1545			
Lys	Ile	Ala	Gly	Pro	Leu	Tyr	Ser	Lys	Thr	Ser	Ile	Tyr	Gly	Asp
1550						1555					1560			
Ile	Arg	Phe	Ser	Ala	Ser	Asp	Trp	Lys	Leu	Ile	Asn	Glu	Ile	Lys
1565						1570					1575			
Ala	Ile	Val	Glu	Lys	Leu	Pro	Pro	Leu	Asp	Tyr	Pro	Pro	Glu	Gln
1580						1585					1590			
Ala	Tyr	Ile	Ile	Ile	Glu	Ser	Asp	Gly	Cys	Met	Glu	Gly	Trp	Gly
1595						1600					1605			
Ala	Ile	Cys	Lys	Trp	Lys	Leu	Ala	Glu	Tyr	Asp	Pro	Lys	Ser	Ser
1610						1615					1620			
Glu	Gln	Ile	Cys	Ala	Tyr	Ala	Ser	Gly	Lys	Phe	Ser	Pro	Ile	Lys
1625						1630					1635			
Ser	Thr	Ile	Asp	Ala	Glu	Ile	Thr	Ala	Ala	Met	Glu	Gly	Leu	Glu
1640						1645					1650			

Ala Phe Lys Ile His Tyr Leu Asp Lys Gln Lys Ile Thr Leu Arg
1655 1660 1665

Thr Asp Cys Gln Ala Ile Ile Ser Phe Cys Asn Lys Thr Ser Val
1670 1675 1680

Asn Lys Pro Ser Arg Val Arg Trp Leu Lys Phe Ile Asp Tyr Ile
1685 1690 1695

Thr Asn Thr Gly Ile Asp Val Lys Phe Glu His Ile Asp Ala Lys
1700 1705 1710

Asn Asn Val Leu Ala Asp Thr Leu Ser Arg Leu Val Asn Thr Leu
1715 1720 1725

Gln Asp Leu Pro Trp Leu Asp Glu Pro His Gln Asp Gln Thr Val
1730 1735 1740

Ser Leu Met Gln Glu Ile Glu Asp Ala Pro Leu Glu Ile Lys Gln
1745 1750 1755

Arg Ser Leu Thr Cys Leu Gln Arg Leu Ile Cys Arg Ser Phe Met
1760 1765 1770

Glu Asp Ser Thr Glu Glu Ala Ile His Phe Leu Glu Asp Asp Lys
1775 1780 1785

Ile Glu Pro Thr Ala Glu Ser Ser Thr Pro Ile Thr Leu Asp Glu
1790 1795 1800

Phe Ser Arg Lys Arg Phe Gln Glu His Thr Asp Leu Leu Glu Glu
1805 1810 1815

Phe Gln Leu Thr Leu Leu Gln Ile Asn Leu Leu Glu Ala Ser Leu
1820 1825 1830

His Glu Arg Leu Met Lys Cys Gln Ser Tyr Ala Thr Arg Asp Asn
1835 1840 1845

Phe Trp Gly Asp Trp Leu Pro Glu Ala Arg Arg Asp Leu Leu Gln
1850 1855 1860

Ile Gln Leu Ala Lys Glu Ile Ile Glu Lys Val Arg Glu Lys Leu
 1865 1870 1875

His Ser Ile
 1880

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 <212> DNA
 <213> Taro bacilliform virus

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 taacactttg caggatttgc catggctaga tgaacctcat caggatcaaa cagtctccct 180
 gatgcaggaa attgaagatg cacctcttga aatcaagcag cgttctttaa cctgcttaca 240
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 agatgataag atcgagccaa cagctgagtc atcaacccca attactttgg atgaattttc 360
 aagaaaaaga ttccaagaac atacagatct cttagaagaa tttcaattaa ctttgcttca 420
 aattaatctt cttgaagcat ctcttcatga acgattaatg aaatgccaaa gttatgcaac 480
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 ggggagccgt tcgtacaaag tagatgcttt tctagtcaca tctgactttt ctaaaagcag 780
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 tgagcttgtg tgtaatcttt catagtttct aagtctccga agaacgagca ccgtctcgtg 1140
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<210> 7
 <211> 598

<212> DNA

<213> Taro bacilliform virus

<400> 7

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ccctcagaag aacggcaagc cggaaacacc gaacttccca ttcttctctt gagtctttcc      480
tttgagcttg agcttgtgtg taatctttca tagtttctaa gtctccgaag aacgagcacc      540
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<210> 8

<211> 529

<212> DNA

<213> Taro bacilliform virus

<400> 8

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tgccatcaac tttattcgag ttgagcctcg gggagccgct cgtttaaaga tgctcttttg      180
aaaatgacag cgcgtgggtgc gatgtcattc tcaccttttc tttaatgcgt cggccaccga      240
ctgcattatt gagattctct tatccctttg ccacctcatc gggtgcatta ttgggatttc      300
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gaacggcaag ccggaaacac cgaacttccc attcttctct tgagtctttc ctttgagctt      420
gagcttgtgt gtaatctttc atagtttcta agtctccgaa gaacgagcac cgtctcgtga      480
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<210> 9

<211> 261

<212> DNA

<213> Taro bacilliform virus

<400> 9

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tgccacctca tcggttgcat tattgggatt tcgtatcgag tcgagggacg aggcctccac      60

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 ccattcttct cttgagtctt tcctttgagc ttgagcttgt gtgtaatctt tcatagtttc 180
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<210> 10
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 <213> Artificial Sequence

<220>
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<220>
 <221> modified_base
 <222> (5)..(6)
 <223> I

<220>
 <221> modified_base
 <222> (10)..(11)
 <223> I

<220>
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 <222> (18)..(19)
 <223> I

<400> 10
 atgccttygg aaraaygcc 20

<210> 11
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Badna RP primer

<220>
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 <223> I

<220>
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 <223> I

<220>
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<222> (13)..(14)
<223> I

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<222> (18)..(19)
<223> I

<400> 11
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<210> 12
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> 1F primer

<400> 12
ggatgcagta ttcaaagggt gtg 23

<210> 13
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> TRBR primer

<400> 13
ctgcaggcgg ccgcgctctg atacca 26

<210> 14
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> 5F primer

<400> 14
agtctttcct ttgagcttga gc 22

<210> 15
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